

Lead-Based Paint Clearance Sampling

Quarters 760, 761, 762 and 763

Charleston Naval Complex Charleston, South Carolina

Submitted to:

CH2M-Jones, LLC 1849 Avenue F Charleston Naval Complex Charleston, South Carolina Submitted by:

General Engineering
A Division of General Engineering Laboratories, Inc.
Post Office Box 30712
Charleston, South Carolina 29407

Submittal Date: February 26, 2001



GENERAL ENGINEERING

A Division of General Engineering Laboratories, Inc.

February 26, 2001

Mr. Jed Heames, Site Superintendent CH2M-Jones, LLC 1849 Avenue F Charleston Naval Complex Charleston, South Carolina 29405-6188

Re: Lead-Based Paint Clearance Samples

Quarters A and Quarters F, Charleston Naval Complex (CNC)

Charleston, South Carolina

Dear Mr. Heames:

During the period from December 1, 2000 – January 26, 2001, certified lead inspectors and risk assessors from General Engineering performed lead-based paint (LBP) initial clearance testing on Quarters A and Quarters F located in the Charleston Naval Complex, North Charleston, South Carolina. While in Quarters F, no additional cleaning was required, results from the initial clearance testing in Quarters A required additional cleaning and subsequent re-testing until LBP dust hazards were reduced below dust clearance levels from each unit.

Mr. Craig Langford and James R. Tucker, Ph.D. collected dust wipe samples from floors, window sills (stools) and window troughs. These samples were collected in accordance with the Housing and Urban Development (HUD) <u>Guidelines for the Evaluation and Control of Lead-Based Paint in Housing</u>, October 1997 and subsequent regulatory revisions published in the Code of Federal Regulations (CFR), 29CFR Part 35 et al., effective September 15, 2000. The lead dust content of the wipes from each tested surface was analyzed by Environmental Hazard Services, LLC, an Environmental Lead Proficiency Analytical Testing (ELPAT) certified laboratory.

HUD and the United States Environmental Protection Agency (EPA) regulations specify clearance test levels for lead dust when the lead content is equal to or greater than 40 micrograms per square foot (ug/ft²) for floors, 250 ug/ft² for window sills (stools) and 800 ug/ft² for window troughs (wells). A representative number of dust wipe test locations were collected based upon recommendations from Chapter 15 of the HUD Guidelines and professional judgement. Quality control samples and field blanks were prepared and submitted as part of sample submissions. Results from these QC samples compared favorably with predicted results. The locations of the dust wipe testing locations are shown on the attached drawings for each building. Compliant clearance dust wipe samples for each building are listed in Table One and locations shown on drawings in Attachment One. The complete dust wipe and soil analytical results are summarized in Table Two, on attached laboratory analytical forms and shown on drawings on Attachment Two. The inspectors and firm certifications are also included.

On behalf of General Engineering, I want to thank for the opportunity to assist you in meeting your environmental needs. If you have any questions or need additional information, please call me at (843) 769-7378, extension 4483.

Yours very truly,

James R. Tucker

Certified LBP Risk Assessor

#SC-02-0320031667

fc: chmj00100c:022601a enclosure



TABLE ONE

COMPLIANT LEAD DUST WIPE AND SOIL RESULTS CHARLESTON NAVAL COMPLEX NORTH CHARLESTON, SOUTH CAROLINA

Location #	Building	Sample Identification	Sample Type*	Lead Concentration
35	Quarters 760	F-1-760_	F	<20
36	Quarters 760	WT-1-760	T	88
37	Quarters 760	F-2-760	F	<20
38	Quarters 760	WC-2-7 <u>60</u>	S	<22
39	Quarters 760	F-3-760	F	<20
<u>40</u>	Quarters 760	WT-3-760	T	35
41	Quarters 760	F-4-760	F	<20
42	Quarters 760	WC-4-760	S	34
43	Quarters 760	OS-1-760	C	1,100
24	Quarters 761	F-1-761	F	<20
25	Quarters 761	WT- <u>1-761</u>	T	110
<u> 26</u>	Quarters 761	F-2-761	F	<20
27	Quarters 761	WC-2- <u>761</u>	S	_<22
28	Quarters 761	F-3-761	F	<20
29	Quarters 761	WC-3-761	S	<25
30	Quarters 761	F-4-761	F	<20
31	Quarters 761	WT-4-761	Т	430
32	Quarters 761	OS-1-761	C	1,500
69_	Quarters 762	JRT-1229-9	F	128
70_	Quarters 762	JRT-1229 <u>-</u> 10	В	<20
71	Quarters 762	JRT-1229-11	F	36

^{*}F-Floor Clearance Level = 40 ug/ft², S-Sill Clearance Level = 250 ug/ft²
T-Trough = 800 ug/ft², C-Composite Soil Level, B-Blank or Q-Quality Assurance
** Dust Wipes - ug/ft², Composite Soil - parts per million (ppm)

TABLE ONE (Continued)

COMPLIANT LEAD DUST WIPE AND SOIL RESULTS CHARLESTON NAVAL COMPLEX NORTH CHARLESTON, SOUTH CAROLINA

Location #	Building (**)	Sample Identification	Sample Type*	Lead Concentration **
72	Quarters 762	JRT-1229-12	Т	630
74	Quarters 762	JRT-1229-14	T	232
75	Quarters 762	JRT-1229-15	F	<20
76	Quarters 762	JRT-1229-16	Т	151
78	Quarters 762	JRT-1229-18	С	190
93	Quarters 762	JRT-0110-11	F	<20
62	Quarters 763	JRT-1229-2	F	<20
63	Quarters 763	JRT-1229-3	F	34
64	Quarters 763	JRT-1 <u>229-</u> 4	T	234
65	Quarters 763	JRT-1229-5	Т	146
66	Quarters 763	JRT-1229-6	F	<20
67	Quarters 763	JRT-1229-7	S	<20
77	Quarters 763	JRT-1229-17	C	1,700
102	Quarters 763	JRT-0126-4	F	<20

^{*}F-Floor Clearance Level = 40 ug/ft², S-Sill Clearance Level = 250 ug/ft² T-Trough = 800 ug/ft², C-Composite Soil Level, B-Blank or Q-Quality Assurance ** Dust Wipes - ug/ft², Composite Soil - parts per million (ppm)

TABLE TWO

COMPLETE LEAD DUST WIPE AND SOIL RESULTS CHARLESTON NAVAL COMPLEX NORTH CHARLESTON, SOUTH CAROLINA

Location #	Building ***	Sample Identification.	Sample Type*	Lead Concentration
1	Quarters 761	JRT-1201-1	F	110
2	Quarters 761	JRT-1201-2	T	3,000
3	Quarters 761	JRT-1201-3	F	310
4	Quarters 761	JRT-1201-4	F	9,300
5	Quarters 761	JRT-1201-5	Т	28,000
6	Quarters 761	JRT-1201-6	F	620
7	Quarters 761	JRT-1201-7	S	680
8	Quarters 761	JRT-1201-8	F	140
9	Quarters 761	JRT-1201-9	S	280
10	Quarters 761	JRT-1201-10	В	<20
11	Quarters 761	JRT-1201-11	Q	550
12	Quarters 761	JRT-1201-12	Q	610
24	Quarters 761	F-1-761	F	<20
25	Quarters 761	WT-1-761	T	110
26	Quarters 761	F-2-761	F	<20
27	Quarters 761	WC-2-761	S	<22
28	Quarters 761	F-3-761	F	<20
29	Quarters 761	WC-3-761	S	<25
30	Quarters 761	F-4-761	F	<20
31	Quarters 761	WT-4-761	Ť	430
32	Quarters 761	OS- <u>1</u> -761	С	1,500
33	Quarters 761	QS-3	.Q	150

*F-Floor Clearance Level = 40 ug/ft², S-Sill Clearance Level = 250 ug/ft²
T-Trough = 800 ug/ft², C-Composite Soil Level, B-Blank or Q-Quality Assurance
** Dust Wipes - ug/ft², Composite Soil – parts per million (ppm)

TABLE TWO (Continued)

COMPLETE LEAD DUST WIPE AND SOIL RESULTS **CHARLESTON NAVAL COMPLEX** NORTH CHARLESTON, SOUTH CAROLINA

KK - 10 - 200 King - 1 - 1 - 1 - 1	NUKIH CHAI	KLESTON, SOUT	In CARULINA	
Location #	Building 30	Sample Identification	Sample Type*i	Lead Concentration
34	Quarters 761	QS-4	Q	150
35	Quarters 760	F-1-760	F	<20
36	Quarters 760	WT-1-760	T	.88
37	Quarters 760	F-2-760	F	<20
38	Quarters 760	WC-2-760	S	<22
39	Quarters 760	F-3-760	F	<20
40	Quarters 760	WT-3-760	Т	35
41	Quarters 760	F-4-760	F	<20
42	Quarters 760	WC-4-760	S	34
43	Quarters 760	OS-1-760	С	1,100
44	Quarters 760	QS-5	Q	150
45	Quarters 760	QS-6	Q	130
46	Quarters 763	JRT-1222-1	S	630
61	Quarters 763	JRT-1229-1	S	239
62	Quarters 763	JRT- <u>1229-2</u>	F	<20
62	Quarters 763	JRT-1229-3	F	<u>3</u> 4
64	Quarters 763	JRT-1229-4	Т	234
65	Quarters 763	JRT-1229-5	T	146
66	Quarters 763	JRT-1229-6	F	<20
67	Quarters 763	JRT- <u>1229-7</u>	S	<20
68	Quarters 763	JRT-1229-8	F	143
69	Quarters 762	JRT-1229-9	F	128
70	Quarters 762	JRT-1229-10	В	<20

^{*}F-Floor Clearance Level = 40 ug/ft², S-Sill Clearance Level = 250 ug/ft²
T-Trough = 800 ug/ft², C-Composite Soil Level, B-Blank or Q-Quality Assurance
** Dust Wipes - ug/ft², Composite Soil – parts per million (ppm)

TABLE TWO (Continued)

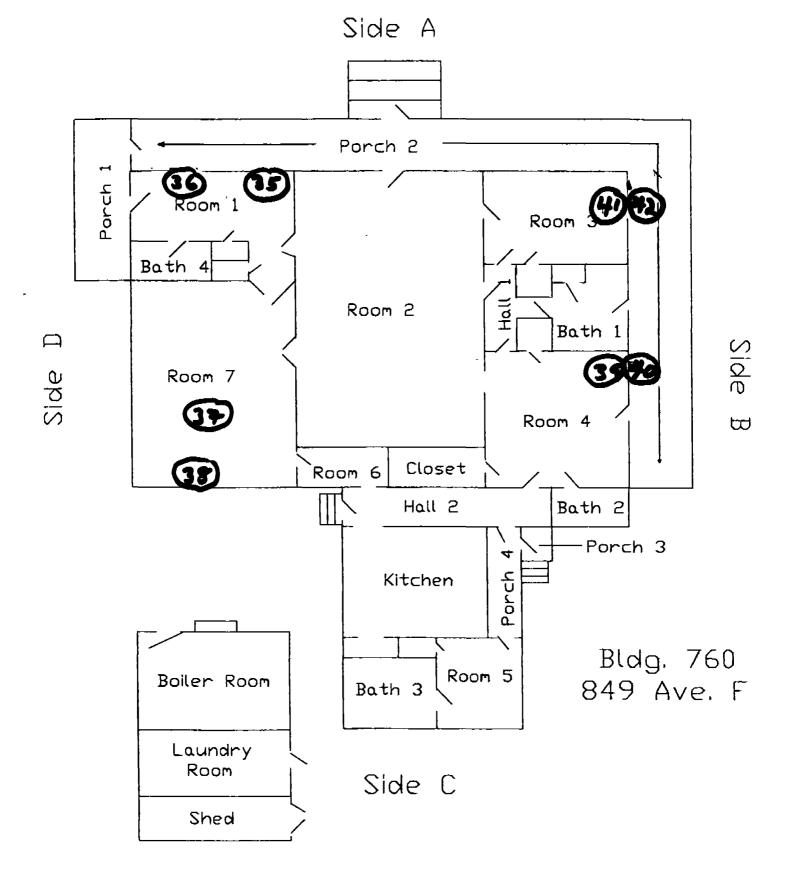
COMPLETE LEAD DUST WIPE AND SOIL RESULTS CHARLESTON NAVAL COMPLEX NORTH CHARLESTON, SOUTH CAROLINA

Location #	Building	tail. Sample : . Identification:	Sample Type*	Lead Concentration
71	Quarters 762	JRT-1229-11	<u> </u>	36
72	Quarters 762	JRT-1229-12	т	630
73	Quarters 762	JRT- <u>1</u> 229-13	F	66
74	Quarters 762	<u> JRT-</u> 1229-14	T	232
75	Quarters 762	JRT-1229-15	F	<20
76	Quarters 762	JRT-1229-16	Т	151
77	Quarters 763	JRT-1229-17	C	1,700
78	Quarters 762	JRT- <u>1</u> 229-18	C	190
79	Quarters 762	JRT-1229-19	Q	37
80	Quarters 763	JRT-1229-20	Q	37
81	Quarters 762	JRT-1229-21	В	<20
82	Quarters 763	JRT-1229-22	В	<20
92	Quarters 763	JRT-0110-10	F	61
93	Quarters 762	JRT-0110-11	F	<20
102	Quarters 763	JRT-0126-4	F	<20
103	Quarters 763	JRT-0126-5	В	<20

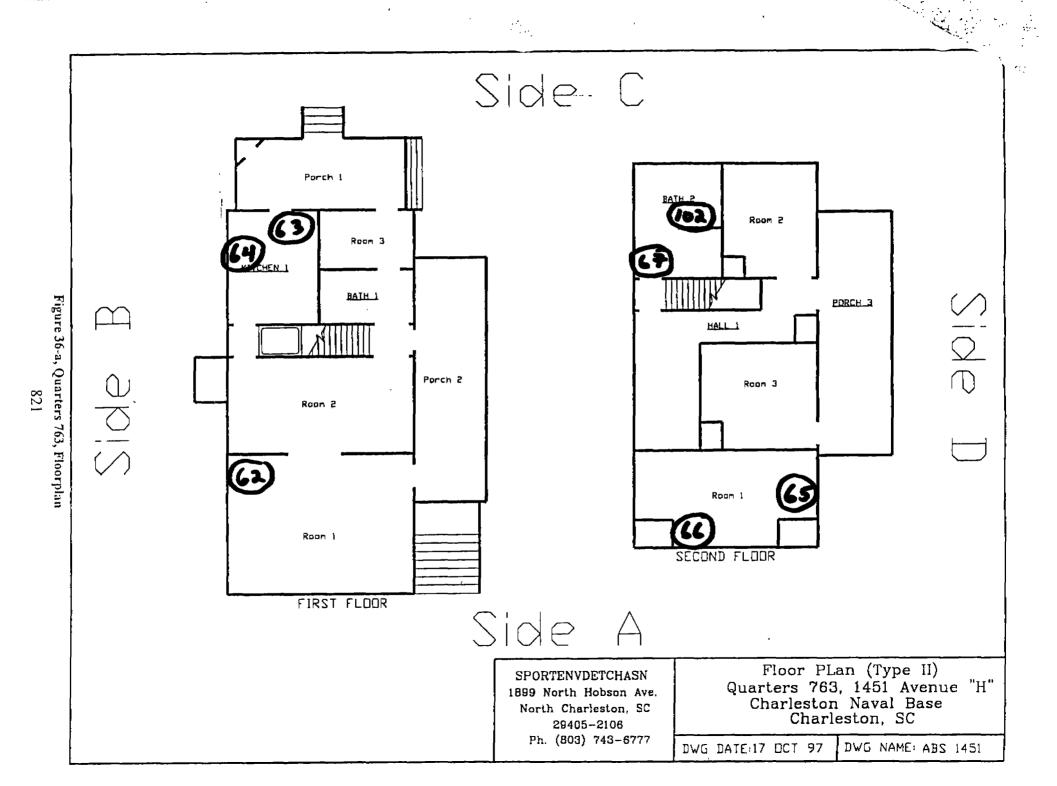
^{*}F-Floor Clearance Level = 40 ug/ft², S-Sill Clearance Level = 250 ug/ft² T-Trough = 800 ug/ft², C-Composite Soil Level, B-Blank or Q-Quality Assurance ** Dust Wipes - ug/ft², Composite Soil – parts per million (ppm)

Attachment One

COMPLIANT LEAD DUST WIPE AND SOIL RESULTS QUARTERS 760, 761, 762 AND 763 CHARLESTON NAVAL COMPLEX NORTH CHARLESTON, SOUTH CAROLINA

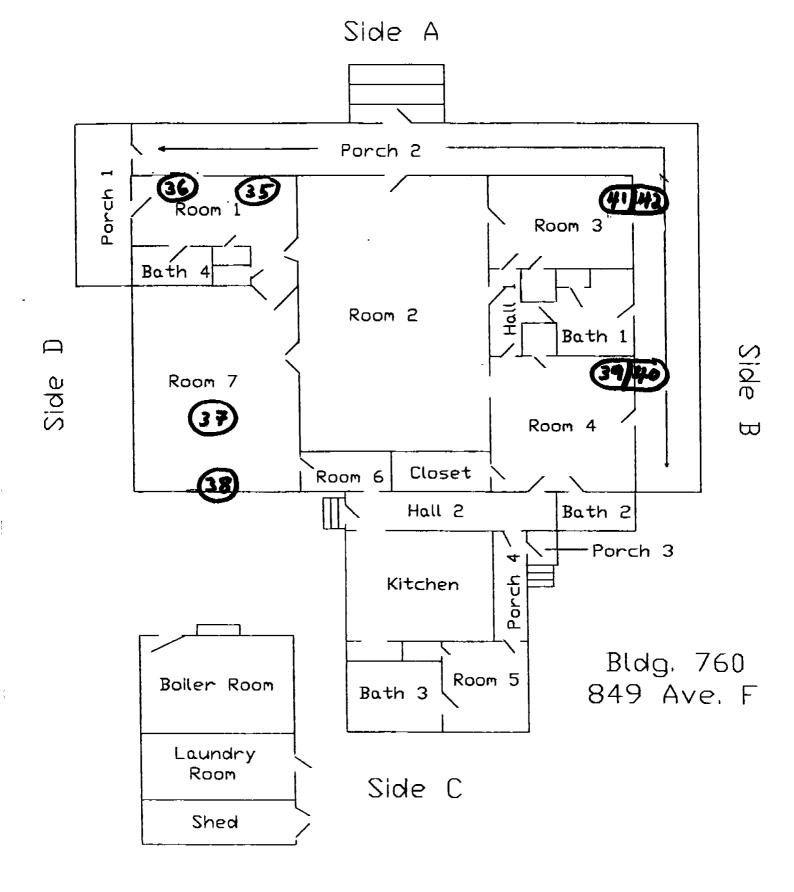


Garage

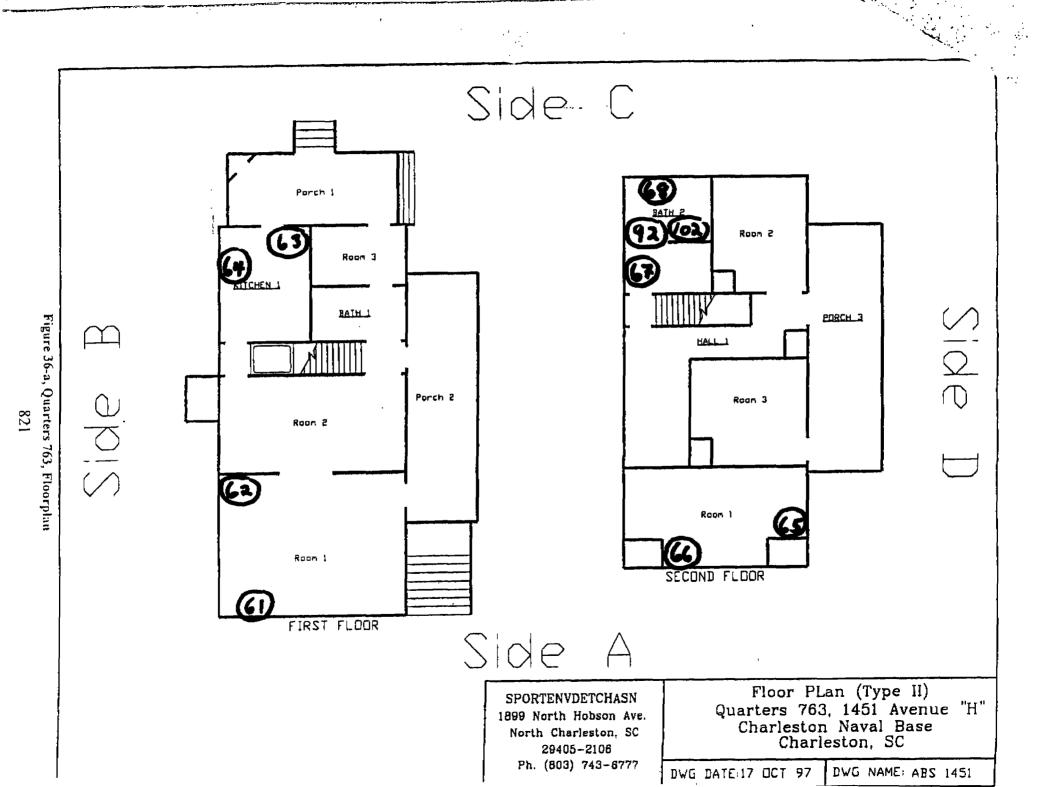


Attachment Two

COMPLETE LEAD DUST WIPE AND SOIL RESULTS FLOOR PLANS QUARTERS 760, 761, 762 AND 763 CHARLESTON NAVAL COMPLEX NORTH CHARLESTON, SOUTH CAROLINA



Garage



Attachment Three

CHAIN OF CUSTODY FORMS AND LABORATORY ANALYSIS

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.
7469 Whitepine Road Richmond, Virginia 23237 Phone (604) 275-4768 Fax (604) 275-4907
CHAIN OF CUSTODY FORM

EHS 12-00-0232

Company Nan	ne: General Engine	eering			Date: 2-0 -06			
Address:	PO Box 30712			01200	Contact Name:James R. Tucker			
City, State, Zip	o: Charleston, SC	29417		SAMPLE CONDITION Acceptable	Sampler Name:James R. Tucker			
EHS Client Account #: Unacceptable					Project#: CHMJoolooC			
Phone#:	843-769-7378 X	(-4483	Fax#: _	843-769-7397	P.O, #:			
		Asbes	stos	Lead	Other Metals			
	t		T		(O)t			

		_	Asbestos Lead						Oth	ег М	etals							
						1			1				(Spec	fy met	als belo	YY)		
Sample Number	Sample Date & Time	동	Asbestos Wipe	Fiber Count (PCM)	TEM Air	TEM Chatfield (Bulk)	Air	Paint	Soil	Wipe	TCLP (Pb)	Waste Water	TCLP RCRA 8				OR Wipe Area (ft²) OR Berape Area(cm²)	Comments
JKT-1201-1) •••									V								
JRT. Roj-2	j 12									•							0.968	
JAT-12-1-3	120									/								
JRT-1201-4	1 25									اس							5.968	
JRT-201-5	145									v							0.968	
JAT-1201-6	IR									1/]						1	
JRT-1201-6 JRT-1201-7	22									~							0.807	
JAT-1201-8	213		_]							•							1	
IRT-201-9	230		1							1							0.807	
JRT-12-1-10	330																	
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Released by:		Signature:								Date/Time:								
Received by:	Signature:									Date/Time:								

ENVIRONMENTAL HAZARDS SERVICES, L.L.C. 7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907 CHAIN OF CUSTODY FORM

Company Name: Address: City, State, Zip: EHS Client Accord	PO Box 30712 Charleston, So unt#:	C 29	417		Fax#;	:1	843-	769-	7397	7						Cor San Pro	Inte: /2-01-03 Intact Name: James R. Tucker Impler Name: James R. Tucker Interpolect#: C. H.M. J. 0010000 D. #:	
			Asbi	este	os				Lea	ad			•	 Met netal:	tals s belo	w)		
Sample Number	Sample Date & Time	Bulk ID by PLM	Asbestos Wipe	Fiber Count (PCM)	TEM Air	TEM Chatfield (Bulk)	Air	Paint	Soil	Wipe	TCLP (Pb)	Waste Water	TCLP RCRA 8				OR Wipe Comments Area (ft²) OR Orape Area(cm²)	
JRT-201-11			1							/							Ocrape Area(cm²)	
JAT-1201-12										1							1 61	
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										7								
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Received by: Released by:					 -		Signature:							 			Date/Time: Date/Time:	
Received by:						_								 		Date/Time:		

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 WHITE PINE ROAD - RICHMOND, VA 23237 804-275-4788 FAX 804-275-4907

WIPE LEAD ANALYSIS SUMMARY

CLIENT:

General Engineering

2040 Savage Road

Charleston, SC 29417

DATE OF SAMPLING: 01 DEC 2000

DATE OF RECEIPT: 04 DEC 200 DATE OF ANALYSIS: 04 DEC 2000

DATE OF REPORT: 05 DEC 2000

CLIENT NUMBER:

42-4586 A

EHS PROJECT #:

12-00-0232

PROJECT:

CHMJ00100C

EHS SAMPLE#	CLIENT SAMPLE#	WIPE AREA (ft2)	TOTAL LEAD (ug)	CONCENTRATION (ug/ft2)
01	JRT-1201-1	1	106	110
02	JRT-1201-2	0.968	2950	3000
03	JRT-1201-3	1	310	310
04	JRT-1201-4	1	9320	9800
05	JRT-1201-5	0.968	27200	28000
06	JRT-1201-6	1	624	620
07	JRT-1201-7	0.807	545	680
08	JRT-1201-8	1	143	140
09	JRT-1201-9	0.807	225	280
10	JRT-1201-10	1	<20.0	<20
11	JRT-1201-11	1	550	550
12	JRT-1201-12	1	607	610

QUALITY CONTROL DATA

BATCH#:	120400W-3
Inclusive ehs sample numbers:	01-12
Continuing Calibration Verification 10 (10.0ppm Pb)	100% Recovery
Continuing Calibration Verification 5 (5.00ppm Pb)	102% Recovery
Laboratory Control Standard	96.9% Recovery
Matrix Spike	106% Recovery
Duplicate Relative Percent Difference	8.97 RPD
Reporting Limit	20.0ug
Method Detection Limit	8.80ug

Sent by: ENVIRONMENTAL HAZARD SERVICES

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER:

42-4586 A

EHS PROJECT #:

12-00-0232

PROJECT:

CHMJ00100C

METHOD:

NIOSH 7082M

ANALYST:

Aubrey Simonds

Reviewed By Authorized Signatory:

Howard Varner, Laboratory Director

Irma Faszewski, Quality Assurance Coordinator

David Xu, MS, Senior Chemist Feng Jiang, MS, Senior Geologist

Sample results denoted with a "less than" (<) sign contain less than 20.0ug total lead, based on a 100ml sample volume.

Results represent the analysis of samples submitted by the client. Sample location, description, area, volume etc., was provided by the client. This report shall not be reproduced, except in full, without the written consent of Environmental Hazards Services, L.L.C. California Certification #2319

LEGEND	ug = microgram	ppm = parts per million	ug/ft2 = micrograms per square foot	-
	ml = milliliter	Pb = lead	ft2 = square foot	
winenb1 dot/	240CT2000/LLH			

-- PAGE 02 of 02 -- END OF REPORT --

8042754907 12/15/00 10:44;

P. 010 **Jelfax_**#190;Page 3/3

EHS 12-00-1505

ENVIRONMENTAL HAZARDS SERVICES, L.L.C. 7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907 CHAIN OF CUSTODY FORM

& Pb/wipe)	
pany Name: General Engineering	Date: 17-13-00
state, ZIp: Charleston South Carolina 29407	Contact Name: Craig Langford Sampler Name: C. Langford
Client Account #:	Project#: CHMJOUIOUC
10#: 843-769-7378 Fext: 843-769-7397	P.O. W:

			Ast	est	os				Lea	ıd			è		Met			}	
						i							(Sp	clfy r	netals	beld	aw)		
	Sample Date & Time	₹ Ö	Asbestos Wipe	Fiber Count (PCM)	TEM Air	TEM Chatfield (Bulk)	Air	Paint	Soil	Wipe	TCLP (Pb)	Waste Water	TCLP RCRA 8					Alr Volume (L) OR Wips Area (ft²) OR Screpe Area(cm²)	Comments
1.761	11:15									~	-								* 24-hr
-1-761	11:70									Y								1.181	turn around
2-7101	11:25									<u>√</u>									·
-2-761	11:30									<u> </u>	r 	_						0.944	SAMPLE CONDITION
3-741	11.35									\checkmark			L_						Accentable
-3-761	11:40									ᆚ								0.833	Unacceptable
4-761	11:45									V									
-4-71.	11:50									4								0.889	
5-1-761	11:55																		Soil Composite
5-3									Z				2						
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ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 WHITE PINE ROAD - RICHMOND, VA 23237 804-275-4788 FAX 804-275-4907

WIPE LEAD ANALYSIS SUMMARY

CLIENT:

RX DATE/TIME

General Engineering

2040 Savage Road

Charleston, SC 29417

DATE OF SAMPLING: 13 DEC 2000

DATE OF RECEIPT:

14 DEC 2000

DATE OF ANALYSIS: 14 DEC 2000 DATE OF REPORT:

14 DEC 2000

CLIENT NUMBER:

EHS PROJECT #:-

42-4586 A

12-00-1505

PROJECT:

CHMJ 00100C

EHS Sample#	CLIENT SAMPLE#	WIPE AREA (ft2)	TOTAL LEAD (ug)	CONCENTRATION (ug/ft2)				
Of	F-1 761	1	<20.0	<20				
02	WT 1-761	1.181	125	110				
03	F-2-761	1	<20.0	<20				
04	WC 2-761	0.944	<20.0	<22				
05	F-3-761	1	<20.0	<20				
06	WC 3-761	0.833	<20.0	<25				
07	F-4-761	1	<20.0	<20				
08	WT-4-761	0.889	386	430				
QUALITY CONT	TROL DATA	<u> </u>						
Continuing Calib Continuing Calib	S SAMPLE NUMBERS: pration Verification 10 (1) pration Verification 5 (5.0	01 10 10	1400W-6 -08 4% Recovery 9% Recovery					
Laboratory Cont Matrix Spike	Laboratory Control Standard Matrix Spike 101% Recovery 106% Recovery							
Duplicate Relative Percent Difference 4.83 RPD Reporting Limit 20.0ug Method Detection Limit 8.80ug								

METHOD:

NIOSH 7082M

ANALYST:

Aubrey Simonds

Reviewed By Authorized Signatory:

Howard Varner, Laboratory Discotor

Irma Faszewski, Quality Assurance Coordinator

David Xu, MS, Senior Chemist Feng Jiang, MS, Senior Geologist RX DATE/TIME

:DEC. -15' 00 (FRI) 10:24

Sent by: ENVIRONMENTAL HAZARD SERVICES

8042754907

P. 009 12/15/00 10:44; **JetFax** #190; Page 2/3

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER:

42-4586 A

EHS PROJECT #:

12-00-1505

PROJECT:

CHMJ 00100C

Sample results denoted with a "less than" (<) sign contain less than 20.0ug total lead, based on a 100ml sample volume.

8042754907;

Results represent the analysis of samples submitted by the client. Sample location, description, area, volume etc., was provided by the client. This report shall not be reproduced, except in full, without the written consent of Environmental Hazarda Services, L.L.C. California Certification #2319

LEGEND	ug = microgram	ppm = parts per million	ug/ft2 = micrograms per square foot	****
	mt = mitliliter	Pb = lead	ft2 = square foot	
wipenhi dot/	24OCT2000/ gob			_

-- PAGE 02 of 02 -- END OF REPORT --

Sent by: ENVIRONMENTAL HAZARD SERVICES

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12/15/00 12:02; JetFax #235; Page 1/6

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 WHITE PINE ROAD - RICHMOND, VA 23237 804-275-4788 FAX 804-275-4907

LEAD IN SOIL ANALYSIS SUMMARY

CLIENT:

General Engineering

2040 Savage Road

Charleston, SC 29417

DATE OF SAMPLING: 13 DEC 2000

DATE OF RECEIPT: 14 DEC 2000

DATE OF ANALYSIS: 15 DEC 2000

DATE OF REPORT: 15 DEC 2000

CLIENT NUMBER:

42-4586 A

EHS PROJECT #:

12-00-1504

PROJECT:

CHMJ00100C

EHS SAMPLE#	CLIENT SAMPLE#	CONCENTRATION PPM (mq/kq)
01	OS-1-761	1500
02	QS-3	150
03	QS-4	150

QUAL	JTY.	CONT	TROL	DAT	Α
------	------	------	------	-----	---

BATCH#:	121500S1-1
INCLUSIVE EHS SAMPLE NUMBERS:	01-03
Initial Calibration Verification (5.00ppm Pb)	102% Recovery
Continuing Calibration Verification 10 (10.0ppm Pb)	104% Recovery
Continuing Calibration Verification 5 (5.00ppm Pb)	94.8% Recovery
Laboratory Control Standard	103% Recovery
Matrix Spike	78.5% Recovery
Duplicate Relative Percent Difference	0.112 RPD
Reporting Limit	25.0 u g
Method Detection Limit	2.50ug

PREPARATION METHOD:

EPA 600/R-93/200

ANALYSIS METHOD:

EPA SW846 7420

ANALYST:

Bayard Vandegrift

Reviewed By Authorized Signatory:

Howard Varner, Laboratory Director

Irma Faszewski, Quality Assurance Coordinator

David Xu, MS, Senior Chemiet Feng Jiang, MS, Senior Geologist

Sample results denoted with a "less than" (<) sign contain less than 25.0ug total lead, based on a 50ml sample volume

Results represent the analysis of samples submitted by the client. Sample location, description, area, volume etc., was provided by the client. This report shall not be reproduced, except in full, without the written consent of Environmental Hazards Services, L.L.C. California Certification #2319

LEGEND

ug = microgram

ppm = parts per million

mg/kg = milligrams per kilogram

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907 CHAIN OF CUSTODY FORM EHS 12-00-1508

PD (wipe)	}
-----------	---

mpany Namo: General Engineering	Date: 12-13-00
iress: 2040 Savage Poad	Contact Name: Craig Langford
v, store, Zip: Charleston South Canolina 29407	Sampler Name: C. Langford
S Client Account #:	Project#: CHMJ00100C
one#: 843-769-7378 Fax#: 843-769-7397	P.O. #:

			Asl	pest	os				Lea	<u>b</u>		Other Metals				·				
													(Spe	cify r	netal	bel	OW)			
mple Number	Sample Date & Time	Bulk ID by PLM	Asbestos Wipe	Fiber Count (PCM)	TEM Air	TEM Chatfield (Bulk)	Air	Paint	Soil	Wipe	TCLP (Pb)	Waste Water	TCLP RCRA 8					Air Volume (L) OR Wipe Area (lt²) OR Scrape Area(cm²)	Comments	
-1-740	12 00									7									* 24-hour	
T-1-760	12:05									\								0.009	turn around	
-2-760	12:10																			
	17:15																	0.944	SAMPLE CONDITION	
1C-2-760 -3-760	12:20																	1	Acceptable	
1T-3-760	12:25																٠٠	1.181		
4-760	17:30																1			
2-4-760	12:35									V	,						ij	0.944		
5-1-740									V								. الرجوي		Soil Composite	
ls-5																	j :			
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P. 005

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12/15/00 10:43; **JetFax** #207; Page 1/3

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 WHITE PINE ROAD - RICHMOND, VA 23237 804-275-4788 FAX 804-275-4907

WIPE LEAD ANALYSIS SUMMARY

CLIENT:

General Engineering

2040 Savage Road

Charleston, SC 29417

DATE OF SAMPLING: 18 DEC 2000

DATE OF RECEIPT: 14 DEC 2000

DATE OF ANALYSIS: 14 DEC 2000

DATE OF REPORT: 14 DEC 2000

CLIENT NUMBER:

42-4586 A

EHS PROJECT #:

12-00-1508

PROJECT:

CHMJ 00100C

EHS Sample#	CLIENT Sample#	WIPE AREA (ft2)	TOTAL LEAD (ug)	CONCENTRATION (ug/ft2)		
01	F -1-760	1	<20.0	<20		
02	WT-1-760	0.889	78,0	88		
03	F-2-760	1	<20.0	<20		
04	WC-2-760	0.944	<20.0	<22		
05	F-3-760	1	<20.0	<20		
06	WT-3-760	1.181	41,0	35		
.07	F-4-760	1	<20.0	<20		
08	WC-4-760	0,944	32.0	34		
Continuing Calib	S SAMPLE NUMBERS: pration Verification 10 (1 pration Verification 5 (5.0	0.0ppm Pb)	121400W-7 01-08 102% Recovery 105% Recovery 106% Recovery			
Matrix Spike104% RecoveryDuplicate Relative Percent Difference1.90 RPDReporting Limit20.0ugMethod Detection Limit8.80ug						

METHOD:

NIOSH 7082M

ANALYST:

Aubrey Simonds

Reviewed By Authorized Signatory:

Howard Varner, Laboratory Director Irma Faszewski, Quality Assurance Coordinator David Xu, MS. Senior Chemist

Feng Jiang, MS, Senior Geologist

RX DATE/TIME DEC. -15' 00 (FRI) 10:24

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* P. 006

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12/15/00 10:43; JetFax #207; Page 2/3

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER:

42-4586 A

EHS PROJECT #:

12-00-1508

PROJECT:

CHMJ 00100C

Sample results denoted with a "less than" (<) sign contain less than 20.0ug total lead, based on a 100ml sample volume.

Results represent the analysis of samples submitted by the client. Sample location, description, area, volume etc., was provided by the client. This report shall not be reproduced, except in full, without the written consent of Environmental Hazards Services, L.L.C. California Certification #2319

LEGEND

ug = microgram

ml = milliliter

ppm = parts per million

ug/ft2 = micrograms per square foot

Pb = lead

ft2 = square foot

wipepb1.dov24OCT2000/ dpb

-- PAGE 02 of 02 - END OF REPORT --

8042754907

P. 007

Sent by: ENVIRONMENTAL HAZARD SERVICES

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12/15/00 12:03; JetFax #235; Page 4/6

ENVIRONMENTAL HAZARDS SERVICES, L

7469 WHITE PINE ROAD - RICHMOND, VA 23237 804-275-4788 FAX 804-275-4907

LEAD IN SOIL ANALYSIS SUMMARY

CLIENT:

General Engineering

2040 Savage Road

Charleston, SC 29417

DATE OF SAMPLING: 13 DEC 2000

DATE OF RECEIPT:

14 DEC 2000

DATE OF REPORT:

DATE OF ANALYSIS: 15 DEC 2000 15 DEC 2000

CLIENT NUMBER:

42-4586 A

EHS PROJECT#:

12-00-1509

PROJECT:

CHMJ00100C

EHS SAMPLE#	CLIENT SAMPLE#	CONCENTRATION PPM (mg/kg)
01	QS-1-760	1100
02	QS-5	150
09	ଭ ଞ-6	130

OHAL	ITV	CONTROL	DATA
CHIAI	11 T	CONTROL	LJALIA

BATCH#;	121500\$1-1
INCLUSIVE EHS SAMPLE NUMBERS:	01-03
Initial Calibration Verification (5.00ppm Pb)	102% Recovery
Continuing Calibration Verification 10 (10.0ppm Pb)	104% Recovery
Continuing Calibration Verification 5 (5.00ppm Pb)	94.8% Recovery
Laboratory Control Standard	103% Recovery
Matrix Spike	78.5% Recovery
Duplicate Relative Percent Difference	0.112 RPD
Reporting Limit	25. 0 ug
Method Detection Limit	2.50ug

PREPARATION METHOD:

EPA 600/R-93/200

ANALYSIS METHOD:

EPA SW846 7420

ANALYST:

Bayard Vandegrift

Reviewed By Authorized Signatory:

Howard Varner, Laboratory Director

Irma Faszewski, Quality Assurance Coordinator

David Xu, MS, Senior Chemist Feng Jiang, MS, Senior Geologist

Sample results denoted with a "less than" (<) sign contain less than 25.0ug total lead, based on a 50ml sample volume

Results represent the analysis of samples submitted by the client. Sample location, description, area, volume etc., was provided by the client. This report shall not be reproduced, except in full, without the written consent of Environmental Hazards Services, LLC California Certification #2319

LEGEND

ug = microgram

ppm = parts per million

mg/kg = milligrams per kilogram

ENVIRONMENTAL HAZARDS SERVICES, L.L.C. 7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907 CHAIN OF CUSTODY FORM

Company Name:	General Engil	neeri	ing														Dat	e: 12-22	-00
Address:	PO Box 30712	?														(Cor	ntact Name:	_ James R. Tucker
City, State, Zip:	Charleston, S	C 29	9417	,														npler Name:	1
EHS Client Acco	unt #:																	ject#: <u>CHMI</u>	=
												0. #:							
Asbestos							Lead							Other Metals					
													4			s belov	w)		
Sample Number	Sample Date & Time	Bulk ID by PLM	Asbestos Wipe	r Count (PCM)	TEM Air	TEM Chatfield (Bulk)		#		ָּט	TCLP (Pb)	Waste Water	TCLP RCRA 8					Air Volume (L) OR Wipe Area (ft²) OR	Comments
	12/22/00	Buk	Asb	Fibe	TEN	TEM	Air	Paint	Soil	Wipe	TCL	Was	2					Scrape Area(cm²)	
JRT-1222 - 1	8;00									1								1.23 ft ²	
JRT-1262-L	8:10									/								1,00 ft	
JRT-122-3	8: 20									1								0,802 ft"	
JRT-1212-4	8:30																	1.00 ft	
JRT-14+3-5	8:4=									/								0,781 ft1	
JRT-1222-6	8:50												L					1,00 ft2	<u> </u>
JRT - 1222 - 7	9 ,00									/			L.,					1.09 ft2	
IRT-1222-8	9:10																	1,00 Ft	
JRT-12+2-9	9: 20									V								1,00 fth	
JRT-1212-10	9:30																	1,00 fth	
Released by:	Jana R.	Tu	De	_			Signature: Gok Truly											Date/Time: / : 3	30 p.m 12/22/w
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ENVIRONMENTAL HAZARDS SERVICES, L.L.C. 7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907 CHAIN OF CUSTODY FORM

Company Name:	General Engii	neer	ing													Dat	te: /2 - 2	L-00		
Address:																Co	ntact Name:	James R. Tucker		
City, State, Zip:	_ Charleston, S	C 2	9417	,												Sai	ampler Name:James R. Tucker			
EHS Client Acco	unt#:																ject#: <u>CHMI</u>			
Phone# :	_843-769-7378	X-44													P.O. #:					
			Asl	pest	os				Le	ad	-		Ot	her M]			
					·								(Spa	cify met	als belo	ow)				
Såmple Number	Sample Date & Time	Bulk ID by PLM	Asbestos Wipe	Fiber Count (PCM)	TEM Air	TEM Chatfield (Bulk)	Ąir	Paint	Soil	Wipe	TCLP (Pb)	Waste Water	TCLP RCRA 8				Air Volume (L) OR Wipe Area (ft²) OR OR Scrape Area(cm²)	Comments		
JRT-1226- 11									7,	V			•				1,00 ft.			
JRT-1272-12										V							1,00 ft2			
IRT-1224-13																	1.00 fth			
JRT-1222-14									/											
JRT-1222-15	-								-						+					
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Received by: Signature:								•	Date/Time:											

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12/27/00 14:40; JetFox #145; Page 1/4

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 WHITE PINE ROAD - RICHMOND, VA 23237 804-275-4788 FAX 804-275-4907

WIPE LEAD ANALYSIS SUMMARY

CLIENT:

General Engineering 2040 Savage Road

Charleston, SC 29417

DATE OF SAMPLING: 22 DEC 2000

DATE OF RECEIPT: 26 DEC 2000 DATE OF ANALYSIS: 27 DEC 2000

8.80ug

DATE OF REPORT: 27 DEC 2000

CLIENT NUMBER: **EHS PROJECT#:**

42-4586 A 12-00-2683

PROJECT:

CHMJ00100C

EHS Sample#	CLIENT SAMPLE#	WIPE AREA (ft2)	TOTAL LEAD (ug)	CONCENTRATION (ug/ft2)
01	JRT-1222-1	1.23	777	630
02	JRT-1222-2	1.00	930	930
03	JRT-1222-3	0.802	300	370
04	JRT-1222-4	1.00	495	500
05	JRT-1222-5	0.781	950	450
06	JRT-1222-6	1.00	1390	1400
07	JRT-1222-7	1.09	269	250
08	JRT-1222-8	1.00	246	250
09	JRT-1222-9	1.00	66.0	66
10	JRT-1222-10	1.00	<20.0	<20
11	JRT-1222-11	1.00	31.0	31
12	JRT-1222-12	1.00	30.0	30
13	JRT-1222-13	1.00	<20.0	<20

\sim		~~~	TT-01	DATA
4 11	1 /1	 / '/ IMA		11/21/2

Method Detection Limit

BATCH#:	122700W1-4
INCLUSIVE EHS SAMPLE NUMBERS:	01-13
Continuing Calibration: Verification 10 (10.0ppm Pb)	105% Recovery
Continuing Calibration Verification 5 (5.00ppm Pb)	102% Recovery
Laboratory Control Standard	103% Recovery
Matrix Spike	106% Recovery
Duplicate Relative Percent Difference	2.87 RPD
Reporting Limit	20.0ug

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8042754907;

12/27/00 14:40; JetFax_#145; Page 2/4

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER:

42-4586 A 12-00-2683

EHS PROJECT #: PROJECT:

CHMJ00100C

METHOD:

NIOSH 7082M

ANALYST:

Aubrey Simonds

Reviewed By Authorized Signatory

Howard Varner, Laborator Director
Irma Faszewski, Quality Assurance Coordinator
David Xu, MS, Senior Chemist
Feng Jiang, MS, Senior Geologist

Sample results denoted with a "less than" (<) sign contain less than 20.0ug total lead, based on a 100ml sample volume.

Results represent the analysis of samples submitted by the client. Sample location, description, area, volume etc., was provided by the client. This report shall not be reproduced, except in full, without the written consent of Environmental Hazards Services, L.L.C. California Certification #2319

LEGEND ug = microgram ppm = parts per million ug/ft2 = micrograms per square foot
ml = milliliter Pb = lead ft2 = square foot

wipepb1.dot/24OCT2000/MR

- PAGE 02 of 02 - END OF REPORT -

8042754907

P. 001

Sent by: ENVIRONMENTAL HAZARD SERVICES

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12/27/00 14:56: JetFax #153; Page 1/2

ENVIRONMENTAL HAZARDS SERVICES, L.L.C

7469 WHITE PINE ROAD - RICHMOND, VA 23237 804-275-4788 FAX 804-275-4907

LEAD IN SOIL ANALYSIS SUMMARY

CLIENT:

General Engineering

2040 Savage Road

Charleston, SC 29417

DATE OF RECEIPT:

26 DEC 2000

DATE OF ANALYSIS: 27 DEC 2000

DATE OF REPORT:

27 DEC 2000

CLIENT NUMBER:

42-4586 A

EHS PROJECT #:

12-00-2685

PROJECT:

CHMJ00100C

EHS

CLIENT SAMPLE#

CONC	CENTRATIC	N
PPM ((mg/kg)	

SAMPLE#

BATCH#:

JRT-1222-14

75

02

01

JRT-1222-15

320

QUALITY CONTROL DATA

INCLUSIVE EHS SAMPLE NUMBERS:
Initial Calibration Verification (5.00ppm Pb)
Continuing Calibration Verification 5 (5.00ppm Pb)
Laboratory Control Standard
Matrix Onlice

Matrix Spike **Duplicate Relative Percent Difference** Reporting Limit

Method Detection Limit

122700S1-1

01-02

102% Recovery 101% Recovery

100% Recovery

108% Recovery 11.2 RPD

25.0ug 2.50ug

PREPARATION METHOD: ANALYSIS METHOD:

EPA 600/R-93/200 EPA SW846 7420

ANALYST:

Aubrey Simonds

Reviewed By Authorized Signatory

Howard Varner, Laboratory Director

Irma Faszewski, Quality Assurance Coordinator

David Xu, MS, Senior Chemist Feng Jiang, MS, Senior Geologist

Sample results denoted with a "less than" (<) sign contain less than 25.0ug total lead, based on a 50ml sample volume.

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LEGEND ug = microgram ml = milliliter

ppm = parts per million Pb = lead

mg/kg = milligrams per kilogram

soilpb3.dot/24OCT2000/MR

Company Name:	General Engir	16e r i	ng													i	Dat	e: /	9-	00	
Address:	PO Box 30712	?														4	Cor	ntact Name:	_ Jar	mes R. Tucker	
City, State, Zip:	Charleston, S	C 29	9417	,												,	San	npler Name:	Jar	mes R. Tucker	
EHS Client Acco	unt #:															1	Pro	ject#: <u>CHZ</u>	I	001000	
Phone#:	843-769-7378	X-44	83		Fax	#: _	843	769-	-739 ⁻	7							P.0).#:			
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													(Spe	ecify n	netal	s belo	w)			·····	
Sample Number	a time	O b	Asbestos Wipe	Fiber Count (PCM)	TEM Air	TEM Chatfield (Bulk)		int	-	be	TCLP (Pb)	Waste Water	TCLP RCRA 8				ļ	Air Volume (L) OR Wipe Area (ft²) OR		Comments	
	12-29-00 8:05	8	Asl	el F	TE	프	ξ	Paint	Soil	Wipe	, 일	<u>×</u>	21					Scrape Area(cm²)	Ļ	74 horn Turnaroud Please	
JRT-1224-01	9:00																		₩	Turnaround	
JRT.122902	8.03																		ــــ	Please	
JRT-1227-03	8:10						<u> </u>							\sqcup					L_/		
TRT- 1227-04	8:15																		$\bot \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$		
JRT-1229-05	8:42									/									Ц		
JRT-1229-06	8:25																		L`	<u> </u>	
JRT-1229-07	8: 30																				
JRT-1229-08																					
														}				•	P	,	
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Released by:							Signature:											Date/Time:			
Received by:							Signature:											Date/Time:			

Company Name:	General Engir	neeri	ng														Dat	le: 11-2	9-00		
Address:	PO Box 30712	2															Coi	ntact Name:	James R. Tucker		
City, State, Zip:	Charleston, S	C 29	9417	•													Sampler Name:James R. Tucker				
EHS Client Acco											i	Project#: CHMI 00/00C									
Phone# :	843-769-7378	X-44	83		Faxi	¥: _	843-	769-	739	7					-	i	P.O).#:			
			Ast	oest	os				Lea	ad			Ot	her	Me	tals]			
													(Spe	cify n	netals	s belo	w)				
Sample Number	Sample Date & Time	Bulk ID by PLM	Asbestos Wipe	Fiber Count (PCM)	TEM Air	FEM Chatfield (Bulk)		**		rb)	ICLP (Pb)	Waste Water	TCLP RCRA 8					Air Volume (L) OR Wipe Area (ft²) OR	Comments		
	12-29-00	BG K	Asbe	Fibe	TEM	TEM	Air	Paint	Soil	Wipe	10 10	Was	TCL					Scrape Area(cm²)			
JRT-1227-09	8:40									_									24 Turnaroud		
JRT-1229-10	8:45									~									Plane		
JRT-1225-11	2:50																				
JRT-1219-12	8155																		<i></i>		
JRT-1279-13	9,00																				
JRT-1229-14	4! 05																				
JRT-1224-15	9:10																				
JRT-1229-16	9; 12																				
JRT-1229-17	9:25								Х												
JRT-1229-18	9:35								Х												
Released by:	An R Tail	ar					Sign	atur	e:	as	L	70	wh	V				Date/Time: /2	- 29 -00 - 12:00		
Received by:							Sign										Date/Time:				
Released by:							Signature:											Date/Time:			
Received by:							Sian	atur	e:								Date/Time:				

Company Name:	General Engil	neeri	ing													i	Dat	te: 12 - 2	19-00		
Address:	_PO Box 30712	2														(Cor	ntact Name:	_ James R. Tucker		
City, State, Zip:	Charleston, S	C 2	9417	,												;	San	mpler Name:	James R. Tucker		
EHS Client Acco	unt#:															1	Pro	ject#: CH/	1100/000		
Phone# :	_843-769-7378	X-44	183		Faxi	#: <u></u>	. <u>843</u> .	-769·	-739	7							P. 0).#:			
			Ast	pest	os				Lea	ad			Ot	her	Me	tals		}			
													(Spe	ecify n	netal	ls belov	N)				
Sample Number	Sample Date & Time	IK ID b	Asbestos Wipe	Fiber Count (PCM)	TEM Air	TEM Chatfield (Bulk)	Air	Paint	Soil	Wipe	TCLP (Pb)	Waste Water	TCLP RCRA 8					Air Volume (L) OR Wipe Area (ft²) OR Scrape Area(cm²)	Comments 24 hr. Tunnal		
JRT-1207-19										7									7 01		
IRT-127-20																			(Please		
TRT-122971										/											
JRT-12-9-42										1											
																	_		<u> </u>		
Released by:	Car Tue	hu_					Sign			Ort.	<u>L R,</u>	Z	ul	<u> </u>				Date/Time: 12	-29-00 - 12:00		
Received by:	<i></i>						Sign	atur	'e:	<u>/</u>							Date/Time:				
Released by:							Signature:										Date/Time:				
Received by:							Signature:											Date/Time:			

Sent by: ENVIRONMENTAL HAZARD SERVICES

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01/03/01 9:33; **JetFax** #508; Page 1/5

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 WHITE PINE ROAD - RICHMOND, VA 23237 804-275-4788 FAX 804-275-4907

WIPE LEAD ANALYSIS SUMMARY

CLIENT:

General Engineering 2040 Savage Road

Charleston, SC 29417

DATE OF SAMPLING: 29 DEC 2000

DATE OF RECEIPT: 02 JAN 2001

DATE OF ANALYSIS: 02 JAN 2001 DATE OF REPORT: 03 JAN 2001

CLIENT NUMBER: EHS PROJECT #: 42-4586 A 01-01-0076

PROJECT:

CHAJ00100C

Quarters 763 + 762

PROJECT:	CHAJOOTOOC			
ehs <u>Sample#</u>	CLIENT SAMPLE#	WIPE AREA (ft2)	TOTAL LEAD (49)	CONCENTRATION (ug/ft2)
01	JRT-1229-01	± 0.593	142	* 239
02	JRT-1229-02	* 1.0	<20.0	* <20,0
03	JRT-1229-03	* 1.0	34.0	* 34
04	JRT-1229-04	* 0.968	227	* 234
05	JRT-1229-05	* 0,804	118	* 146
06	JRT-1229-06	* 1	<20.0	* < do.0
07	JRT-1229-07	± 6,631	<20.0	* <20.0
08	JRT-1229-08	* 1	143	* 143
09	JRT-1229-09	* 0.937	120	*)28
10	JRT-1229-10	± 1, ₩	<20.0	* <20.0
11	JRT-1229-11	* 10	36.0	* 34,0
12	JRT-1229-12	* 0.875	552	* 630.
13	JRT-1229-13	* 1.0	66.0	* 64
14	JRT-1229-14	* 0.875	203 [.]	* 232
15	JRT-1229-15	* 10	<20.0	* < 20,0
16	JRT-1229-16	* 0.859	130	± 151
17	JRT-1229-19	* 1,0	37.0	* 37
18	JRT-1229-20	* 1,0	37.0	* 37
19	JRT-1229-21	* }, ?	<20.0	*<20.0
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Sent by: ENVIRONMENTAL HAZARD SERVICES

8042754907;

01/03/01 9:34; JetFax_#515; Page 1/2

ENVIRONM**E**NTAL H**AZ**ARDS SERVICES. L.L.C

7469 WHITE PINE ROAD - RICHMOND, VA 23237 804-275-4788 FAX 804-275-4907

LEAD IN SOIL ANALYSIS SUMMARY

CLIENT:

General Engineering

2040 Savage Road

Charleston, SC 29417

DATE OF SAMPLING: 29 DEC 2000

DATE OF RECEIPT: 02 JAN 2001

DATE OF ANALYSIS: 02 JAN 2001

DATE OF REPORT: 02 JAN 2001

CLIENT NUMBER:

42-4586 A 01-01-0075

EHS PROJECT #: PROJECT:

CHMI 001000

EHS SAMPLE# CLIENT

SAMPLE#

CONCENTRATION PPM (mg/kg)

01

JRT-1229-17

1700

02

JRT-1229-18

190

QUALITY CONTROL DATA

BATCH#:

INCLUSIVE EHS SAMPLE NUMBERS:

Continuing Calibration Verification 10 (10.0ppm Pb) Continuing Calibration Verification 5 (5.00ppm Pb)

Laboratory Control Standard

Matrix Spike

Duplicale Relative Percent Difference

Reporting Limit

Method Detection Limit

01 - 02

0102015-4

99.9% Recovery

103% Recovery

116% Recovery

98.0% Recovery

0.00 RPD

25.0ug

2.50ug

PREPARATION METHOD:

ANALYSIS METHOD:

EPA 600/R-93/200

EPA SW846 7420

ANALYST:

Aubrey Simonds

Sample results denoted with a "less than" (<) sign contain less than 25.0ug total lead, based on a 50ml sample volume.

Reviewed By Authorized Signatory:

Howard Varner, Laboratory Director

Irma Paszewski, Quality Assurance Coordinator

David Xu, MS, Senior Chemist Feng Jiang, MS, Senior Geologist

Results represent the analysis of samples submitted by the client. Sample location, description, area, volume etc., was provided by t client. This report shall not be reproduced, except in full, without the written consent of Environmental Hazards Services, L.L. California Certification #2319

LEGEND ug ≂ microgram <u>ml = milliliter</u>

ppm = parts per million Pb = lead

mg/kg = milligrams per kilogram

soilpb3.doV24OCT2000/ dpb

01/17/01

#_

EHS 01-01-1551

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907 CHAIN OF CUSTODY FORM

16	pblw	(ve)
		7

Company Name: General Engineering	Date:/-//
Address: PO Box 30712	Contact Name:James R. Tucker
City, State, Zip: Charleston, SC 29417	Sampler Name:James R. Tucker
EHS Client Account #:	Project#: CITMJUDIOUC
Phone#:843-769-7378 X-4483	P.O.#:

			Ast	pest	los				Lea	aď			Ot	her	Meta	ls				
										}			(Spe	cify n	netals t	elow)				
Sample Number	Sample Date & Time / ~ / o - 0 [K (D b)	Asbestos Wipe	Fiber Count (PCM)	TEM Air	TEM Charfield (Bulk)	Air	Paint	Soil	Wipe	TCLP (Pb)	Waste Water	TCLP RCRA B				Air Volume (L) OR Wipe Area (ft²) OR Scrape Area(cm²)	Comments		
-JRT-011=-1	110																1,0			
Ų	1:15																1.32	SAMPLE CONDITION		
3	1:20														I		}, >	Acceptable		
4	1:45																0.74	Unacceptable		
5	1: 50] c			
6	1:40									\							1,05			
+	1,45																1-08			
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9	17.55																1.0			
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Received by:							Sign	atur	e,	Ü	11		1				Date/Time: ////////////////////////////////////			

8042754907;

by: ENVIRONMENTAL HAZARD SERVICES

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907 CHAIN OF CUSTODY FORM

Company Name: Address: City, State, Zip: EHS Client Accomp	PO Box 30712 Charleston, S unt#:	? C 2:	941 7			#: _	843	769-					Γαΐ		Ca Si Pi P.	ontect Name: Impler Name: Impler Name: Impler the Clty To	lames R. Tucker James R. Tucker
		-	Asi	pesi	os		_		Lea				l	h er Meta l cify metals b			
Sample Number	Sample Date & Time	Bulk ID by PLM	Asbestos Wipe	Fiber Count (PCM)	TEM Air	TEM Chaffield (Bulk)	Air	Paint	Soil	Wipe	TCLP (Pb)	Waste Water	8	city friends to		Air Volume (L) OR Wipe Area (ft*) OR Scrape Area(cm²)	Comments
TRT-0110-10	2:10									/						1,0,	
-11	2; 3>									/						1.0	
- f l	3 , 00									/					<u> </u>	1 0	
-13										/						1.0	
- 14	3:10									/					_	J . J	
-15	3.25															100	
-16	4:00									4					_	1.0	
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RX DATE/TIME ent by: ENVIRONMENTAL HAZARD SERVICES 8042754907;

01/17/01 8:16; JetFax #774; Page 1/4

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 WHITE PINE ROAD - RICHMOND, VA 23237 804-275-4788 FAX 804-275-4907

WIPE LEAD ANALYSIS SUMMARY

CLIENT:

General Engineering 2040 Savage Road Charleston, SC 29417 DATE OF SAMPLING: 10 JAN 2001 DATE OF RECEIPT:

DATE OF ANALYSIS: 16 JAN 2001

16 JAN 2001

DATE OF REPORT:

16 JAN 2001

CLIENT NUMBER:

42-4586 A 01-01-1551

EHS PROJECT #: PROJECT:

CHMJ00100C

EHS SAMPLE#	CLIENT SAMPLE#	WIPE AREA (ft2)	TOTAL LEAD (ug)	CONCENTRATION (ug/ft2)
Ot	JRT-0110-1	1.0	198	200 -
Q 2	JRT-0110-2	1.32	<20.0	<16
03	JRT-0110-3	0.1	<20.0	<20
04	JRT-0110-4	0.74	81.0	110
05	JRT-0110-5	1.0	<20.0	<20
06	JRT-0110-6	1.05	<20.0	<20
07	JRT-0110-7	1.08	48.0	44
08	JRT-0110-8	1.0	67.0	67
09	JRT-0110-9	1.0	53.0	53 -
10	JRT-0110-10	1.0	61.0	61 ~
11	JRT-0110-11	1.0	<20.0	<20
12	JRT-0110-12	1.0	<20.0	<20
13	JRT-0110-13	1.0	<20.0	<20
14	JRT-0110-14	1.0	42.0	42
15	JRT-0110-15	1.0	28.0	28
16	JRT-0110-16	1.0	39.0	39

ent by: ENVIRONMENTAL HAZARD SERVICES

8042754907;

01/17/01 8:16; JetFax #774; Page 2/4

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER:

42-4586 A

EHS PROJECT #:

01-01-1551

PROJECT:

CHMJ00100C

QUAL	YTI.	CONT	ROL	DATA

BATCH#:	011601W1-1
INCLUSIVE EHS SAMPLE NUMBERS:	01-16
Initial Calibration Verification (5.00ppm Pb)	104% Recovery
Continuing Calibration Verification 10 (10.0ppm Pb)	103% Recovery
Continuing Calibration Verification 5 (5.00ppm Pb)	105% Recovery
Laboratory Control Standard	104% Recovery
Matrix Spike	105% Recovery
Ouplicate Relative Percent Difference	0.962 RPD
Reporting Limit	20.0ug
Method Detection Limit	8.80ug

METHOD:

NIOSH 7082M

ANALYST:

Aubrey Simonds

Reviewed By Authorized Signatory:

Howard Varner, Laboratory Director

Irma Faszewski, Quality Assurance Coordinator

David Xu, MS, Senior Chemist Feng Jiang, MS, Senior Geologist

Sample results denoted with a "less than" (<) sign contain less than 20.0ug total lead, based on a 100ml sample volume.

Results represent the analysis of samples submitted by the client. Sample location, description, area, volume etc., was provided by the client. This report shall not be reproduced, except in full, without the written consent of Environmental Hazards Services, L.L.C. California Certification #2319

LEGEND ug = microgram ppm = parts per million ug/ft2 = micrograms per square foot
ml = milliliter Pb = lead ft2 = square foot
wipepb1.dot/24OCT2000/ dpb

-- PAGE 02 of 02 -- END OF REPORT --

Company Name:	General Engi	neeri	ing														Dat	te: <u>1-26-</u>	01
Address:	_PO Box 30712	2															Co	ntact Name:	- James R. Tucker
City, State, Zip:	te, Zip: Charleston, SC 29417											Sampler Name:James R. Tucker							
EHS Client Account #:										oject#: <u>CHMI</u>									
Phone#:											P.O. #:								
			Asl	best	tos				Lea	ad			O	ther	Me	tals		1	
						_							(Spe	ecify r	netal	s belo	ow)		
Sample Number	Sample Date & Time	Bulk ID by PLM	Asbestos Wipe	Fiber Count (PCM)	TEM Air	TEM Chatfield (Bulk)	Air	Paint	Soil	Wipe	TCLP (Pb)	Waste Water	TCLP RCRA 8					Air Volume (L) OR Wipe Area (ft²) OR Scrape Area(cm²)	Comments
JRT-0126-1	1/26 8100									1								1.0.	724 hr Turnaroud
JAT-0126-2	1/26 8:10									/								1.0	Please -
JRT-0126-3										ر								1.0	>
JRT-0126-4	1/20 8: \$0									بر			L					1,0	
JRT-0126.5	1/24 - 9:30									_								1.0	
JRT-0126-6	1/20 4:45									<i>i</i> /		_						1.0	J
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ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 WHITE PINE ROAD - RICHMOND, VA 23237 804-275-4788 FAX 804-275-4907

WIPE LEAD ANALYSIS SUMMARY

CLIENT:

General Engineering 2040 Savage Road

Charleston, SC 29417

DATE OF SAMPLING: 26 JAN 2001

20.0ug 8.80ug

DATE OF RECEIPT:

29 JAN 2001

DATE OF ANALYSIS: 29 JAN 2001 DATE OF REPORT:

29 JAN 2001

CLIENT NUMBER:

42-4586 A

EHS PROJECT #:

01-01-3144

PROJECT:

CHMI00100C

EHS SAMPLE#	CLIENT SAMPLE#	WIPE AREA (ft2)	TOTAL LEAD (ug)	CONCENTRATION (ug/ft2)
01	JRT-0126-1	1.0	<20.0	<20
02	JRT-0126-2	1.0	<20.0	<20
03	JRT-0126-3	1.0	<20.0	<20
04	JRT-0126-4	1.0	<20.0	<20
05	JRT-0126-5	1.0	<20.0	<20
06	JRT-0126-6	1.0	<20.0	<20
QUALITY CONT	ROL DATA			
Continuing Calibra Continuing Calibra Laboratory Contro Matrix Spike	SAMPLE NUMBERS: ation Verification 10 (10.0ppr ation Verification 5 (5.00ppm b) Standard Percent Difference	01-0 1009 1059 1029 99.4	901W-8 6 % Recovery % Recovery % Recovery % Recovery RPD	

METHOD:

Method Detection Limit

Reporting Limit

NIOSH 7082M

ANALYST:

Aubrey Simonds

Reviewed By Authorized Signatory:

Howard Varner, Laboratory Director

Irma Faszewski, Quality Assurance Coordinator

David Xu, MS, Senior Chemist Feng Jiang, MS, Senior Geologist

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER:

42-4586 A

EHS PROJECT #:

01-01-3144

PROJECT:

CHMI00100C

Sample results denoted with a "less than" (<) sign contain less than 20.0ug total lead, based on a 100ml sample volume.

Results represent the analysis of samples submitted by the client. Sample location, description, area, volume etc., was provided by the client. This report shall not be reproduced, except in full, without the written consent of Environmental Hazards Services, L.L.C. California Certification #2319

LEGEND	ug = microgram	ppm = parts per million	ug/ft2 = micrograms per square foot
	ml = milliliter	Pb = lead	ft2 = square foot
1.4 4-4/	AAAATAAAA HEL		

wipepb1.dot/24OCT2000/ dpb

-- PAGE 02 of 02 -- END OF REPORT --

Attachment Four

CERTIFICATIONS



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

MAR 1 3 2000

4APT-TS

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. James R. Tucker 3045 Linksland Road Mt. Pleasant, SC 29466-6911

SUBJ: Individual Certification for Lead-Based Paint Activities in Target Housing and Child-Occupied Facilities

Dear Mr. Tucker:

The United States Environmental Protection Agency (U.S. EPA), Region 4 has completed its review of your individual application dated January 5, 2000, for certification to engage in lead-based paint activities pursuant to 40 CFR Part 745, Subpart L (61 FR 45778, August 29, 1996). I am pleased to inform you that as of the date of this letter, you are U.S. EPA certified for the lead-based paint activities discipline of risk assessor. You will be mailed a U.S. EPA certificate for this discipline under separate cover at a future date.

This individual certification, which expires three years after the date of issuance, is valid only for U.S. EPA Region 4 and only in the State of South Carolina, excluding Indian tribes. If this U.S. EPA-administered state obtains program authorization at any time during the term of your current certification, the scope of your individual certification will be correspondingly diminished to exclude this affected area. Please be aware that your U.S. EPA certification does not relieve you of any obligations that you may otherwise have to any authorized or unauthorized state or Indian tribe to obtain licensure or certification from that state or Indian tribe under its statutory or regulatory requirements relating to lead-based paint activities. Your U.S. EPA individual certification is subject to the following restrictions.

- 1) Certification pertains only to the specific discipline, jurisdiction, and individual listed above that performs or offers to perform the associated lead-based paint activities within the scope of the discipline described in 40 CFR §745.223 and 40 CFR §745.227 pursuant to Section 402 of the Toxic Substances Control Act (TSCA) (15 U.S.C. 2682).
- 2) U.S. EPA certification does not mean that a state or Indian tribe with its own certification program must accept or recognize a U.S. EPA certification. Individual states and Indian tribes, whether authorized or not, have the right to accept or reject any certification under their own authority.

- 3) U.S. EPA certification is specific and limited to the location and discipline described above. If you wish to obtain certification in other U.S. EPA administered states or Indian tribes or in other lead-based paint activity disciplines, you will need to apply separately for this certification.
- 4) In advertising the U.S. EPA's certification, individuals must indicate clearly that the individual is only certified under Section 402 of TSCA for the respective discipline. Failure to accurately state U.S. EPA certification conditions could result in the U.S. EPA suspending or withdrawing certification.
- 5) The U.S. EPA may revoke or suspend its certification of any individual if subsequent alterations or deviations result with the individual no longer meeting the standards found at 40 CFR Part 745, Subpart L.
- 6) The U.S. EPA may conduct audits and/or inspections to ensure continued compliance with its regulatory standards.

Please submit any future notifications or correspondence with this office to the address given below.

Regional Lead Coordinator
U.S. EPA, Region 4
Pesticides and Toxic Substances Branch
61 Forsyth Street, S.W.
Atlanta, Georgia 30303-8960

If you have questions, or need assistance, please contact the Regional Lead Coordinator, Ms. Rose Anne Rudd of the U.S. EPA Region 4 staff at 404-562-8998. Thank you for your interest in providing certified lead-based paint activities services in the U.S. EPA Region 4.

Sincerely,

Carol L. Kemker

Chief

Pesticides and Toxic Substances Branch

cc: Traci Brown, EPA HQ
Cathy Strasnick, Optimus Corporation



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

MAR 1 6 2000

4APT-TS

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. James R. Tucker ASAP Environmental 3045 Linksland Road Mt. Pleasant, SC 29466

SUBJ: Certification of Lead-Based Paint Activities Firm

Dear Mr. Tucker:

The United States Environmental Protection Agency (U.S. EPA), Region 4 has completed its review of your firm application dated January 5, 2000, for certification to become a lead-based paint activities firm pursuant to 40 CFR Part 745, Subpart L (61 FR 45778, August 29, 1996). I am pleased to inform you that as of the date of this letter, your lead-based paint activities firm is U.S. EPA certified. You will be mailed a U.S. EPA certificate under separate cover at a future date.

This firm certification, which expires three years after the date of issuance, is valid only for U.S. EPA Region 4, and only in the State of South Carolina, excluding Indian tribes. If the State of South Carolina obtains program authorization at any time during the term of your current certification, the scope of your firm certification will be correspondingly diminished to exclude this affected area. Please be aware that your U.S. EPA certification does not relieve you of any obligations that you may otherwise have to any authorized or unauthorized state or Indian tribe to obtain licensure or certification from that state or Indian tribe under its statutory or regulatory requirements relating to lead-based paint activities. Your U.S. EPA firm certification is subject to the following restrictions.

- 1) Certification pertains only to firms which perform or offer to perform any of the lead-based paint activities described in 40 CFR §745.227 pursuant to Section 402 of the Toxic Substances Control Act (TSCA) (15 U.S.C. 2682).
- 2) U.S. EPA certification does not mean that a state or Indian tribe with its own certification program must accept or recognize a U.S. EPA certification. Individual states and Indian tribes, whether authorized or not, have the right to accept or reject any certification under their own authority.

- 3) U.S. EPA certification is specific and limited to the location described above. If you wish to obtain certification in other U.S. EPA administered states or Indian tribes, you will need to apply separately for this certification.
- In advertising the U.S. EPA's certification, firms must indicate clearly that the firm is only certified under Section 402 of TSCA. Failure to accurately state U.S. EPA certification conditions in advertisements could result in the U.S. EPA suspending or withdrawing certification.
- 5) The U.S. EPA may revoke or suspend its certification of any firm if subsequent alterations or deviations result in the firm no longer meeting the standards found at 40 CFR Part 745, Subpart L.
- 6) The U.S. EPA may conduct audits and/or inspections to ensure continued compliance with its regulatory standards.

Please submit any future notifications or correspondence with this office to the address given below.

Regional Lead Coordinator
U.S. EPA, Region 4
Pesticides and Toxic Substances Branch
61 Forsyth Street, S.W.
Atlanta, Georgia 30303-8960

If you have questions or need assistance, please contact the Regional Lead Coordinator, Ms. Rose Anne Rudd of the EPA Region 4 staff at 404-562-8998. Thank you for your interest in providing certified lead-based paint activities services in U.S. EPA Region 4.

Sincerely,

alfreda Feleman/yon

Chief

Pesticides and Toxic Substances Branch

cc: Traci Brown, EPA HQ
Cathy Strasnick, Optimus Corporation



GEORGIA -AD CERTIFICATION

	ESM
22	6-62-5390
DOS 1/4/1954	FER HIT WIT
C. 458 LEAD DESIGNER	311 250
LEAD INSPECTOR	140017 COC COC 119250
RISK ASSESSOR	120244 7 11 111

James Tucker 3045 Linksland Road Mt Pleasant, SC 29466 James R Tucker
3045 Linkstand Rd
Mit Pleasant, SC 29466

RISK ASSESSOR 120835 INS 01-20-1969 Pts 01-31-2001

This certification identification card has been issued pursuant to O.C.G.A. Section 31-41-1 et seq. Georgia Lead Poiso, in Act and Chapter 391-3-24. Georgia Rules for Lead-Based Paint Attaments and Certification, and is subject to revocation if the holder fails to comply with the provisions of Chapter 13 of Title 50, the "Georgia Administrative Procedures Act".

This card is non-transferable and will become invalid if loaned or given to another person for identification. This card with also be invalid if altered or defaced.

This card is the property of the Georgia Environmental Protection Division. It must be returned to the Division if the holder's certification is revoked or if this card is invalidated. Any person performing regulated lead-based paint activities without current certification shall be subject to legal sanction.

For information or corrections, direct all inquiries to the following: Georgia Department of Natural Resources Environmental Protection Division Lead-Based Paint and Asbestos Program 4244 International Parkway, Suite 104 Atlanta, Georgia 30354 (404) 363-7026 This certification interesting the many territory parametries Chapter 130A. Articles 130A Country Stations and is authorized to review the trial product of the reduce of the relation feets to comply shall be requirements of 15A NCSC 18C Section, 0000 or or like confidential water between the confidential product of the confidential prod

The card is protected for all the control of the protection in profession of the card of t

YOU MUST HAVE THIS BUSINESSATION CARD WITH YOU ON THE JOB, For Information or confidence, deed as Inquires to the following.

Health Historics Control Unita NC Department of Scientis petch habitation Scholcus Division of Public Hollan 1912 Mail Service Center Railelph, NC 27899-1912 (819) 733-0820



Medical University of South Carolina College of Health Professions Program in Environmental Health Sciences

19 Hagood Avenue, Charleston, South Carolina 29425 (843) 792-5315

Certifies that

JAMES R. TUCKER

Attended and Satisfactorily Completed

Inspection for Lead-Based Paint

conducted January 24, 2000 through January 26, 2000 and satisfactorily passed an exam on January 26, 2000.

Pb27120-99121 Certificate Number

Contact Hours

226-62-5390 ID Number

T.A. Rowland, III
Program Director

January 26, 2000

Exam Date

January 25, 2003 Certificate Expires

David M. Hunt, CIH



Medical University of South Carolina College of Health Professions Program in Environmental Health Sciences

19 Hagood Avenue, Charleston, South Carolina 29425 (843) 792-5315

Certifies that

JAMES R. TUCKER

Attended and Satisfactorily Completed

Risk Assessment of Lead-Based Paint

conducted January 27, 2000 through January 28, 2000 and satisfactorily passed an exam on January 28, 2000.

PbRA27120-00046 Certificate Number

16 Contact Hours 226-62-5390 ID Number

T.A. Rowland, III Program Director

January 28, 2000 Exam Date January 27, 2003 Certificate Expires David M. Hunt, CIH Instructor



Georgia Department of Natural Resources

Environmental Protection Division
Land Protection Branch
4244 International Parkway, Suite 104, Atlanta, Georgia 30354
Lonice C. Barrett, Commissioner
Harold F. Reheis, Director
(404) 363-7026

May 8, 2000

James Tucker 3045 Linksland Road Mt Pleasant, SC 29466

Dear Mr. Tucker:

Your application for certification as Lead-Based Paint LEAD DESIGNER has been approved by the Environmental Protection Division in accordance with the Georgia Rules for Lead-Based Paint Abatement and Certification, Chapter 391-3-24. Your Georgia certification number is 140017. It is reflected on your enclosed Georgia Certification card.

Your Georgia certification is valid through February 23, 2001. In order to maintain certification as a Lead-Based Paint LEAD DESIGNER, you must pay the required renewal fee and recertify your license on or before the expiration date stated on your card. If you should continue to perform lead-based paint activities after the expiration date, you will be in violation of the Georgia Lead-Based Paint Abatement and Certification Rule and may be cited for noncompliance. It is your responsibility to ensure you have met all the requirements for renewal of your lead certification.

If you have any questions, please contact Tamara Carter at (404) 362-2704.

Sincerely,

Donald H. McCarty, Jr.

Program Manager I

Lead-Based Paint and Asbestos Program

Medical University of South Carolina College of Health Professions Program in Environmental Health Sciences

19 Hagood Avenue, Charleston, South Carolina 29425 (843) 792-5315

Certifies that

CRAIG C. LANGFORD

2040 SAVAGE RD.

CHARLESTON,

SC

29402

Attended and Satisfactorily Completed

Inspection for Lead-Based Paint

conducted October 23, 2000 through October 25, 2000 and passed an exam on October 25, 2000.

127120-10002 248-43-3432 Certificale Number Contact Hours 1D Number

October 25, 2000 October 25, 2003

Exam Date

EPA Interim Certification Expiration

T.A. Rowland, III

David M. Hwit, CIH Instructor

Alledical University of South Carolina College of Health Professions Program in Environmental Health Sciences

19 Hagood Avenue, Charleston, South Carolina 29425 (843) 792-5315

Certifies that

CRAIG C. LANGFORD

2040 SAVAGE RD.

CHARLESTON,

SC 29402

Instructor

Attended and Satisfactorily Completed
Risk Assessment of Lead-Based Paint
conducted October 26, 2000 through October 27, 2000
and passed an exam on October 27, 2000.

PbRA27120-10005	16_	248-43-3432	7. l. halt
Certificate Number	Contact Hours	ID Number	T.A. Rowland, III
October 27, 2000	October 2	7, 2003	David M. Hunt
Exam Date	EPA Interim Certi	fication Expiration	David M. Hunt, CIH